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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/319,324	06/03/1999	GREG ALAN KRANAWETTER	RCA88228	2806

7590

07/08/2002

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EXAMINER

SENFİ, BEHROOZ M

ART UNIT

PAPER NUMBER

2613

DATE MAILED: 07/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/319,324

Applicant(s)

KRANAWETTER ET AL.

Examiner

Behrooz Senfi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1 – 15 are rejected under 35 U.S.C. 102(a) as being unpatentable over Park (US 5,675,424).

Regarding claim 1, an MPEG compatible digital signal processing (i.e. fig. 3a), an input network for receiving a data stream of MPEG coded data (i.e. fig. 4, abstract), and an interleaving network responsive to said data stream for driving therefrom multiple data streams (i.e. fig. 3a, demultiplexer 13 is equivalent to interleaving network), each constituted by a predetermined sequence of interleaved image data (i.e. abstract, col. 2, lines 45+), and an image signal processor responsive to multiple data streams for producing decoded image information (i.e. fig. 3a - 3b).

Regarding claim 2, as for data block components of an MPEG compatible macroblock containing pixel representative (i.e. col. 3, lines 35+ and lines 56+).

Regarding claims 3 – 4, 8 – 9 and 14 - 15, first data stream (P1) of interleaved first and second pixel block components and second data stream (P2) of interleaved third and fourth pixel block components and first and second and third and fourth pixel block components are components of an MPEG compatible macroblock.

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Note; the limitations claimed are inherent feature of MUX and DEMUX of an MPEG signal processing, park '424 discloses MPEG compatible digital signal processing with multiplexer 74 (i.e. fig. 4), where Multiplexer 74 performs interleave multiplexing of parallel input data streams 73a – 73d and outputs multiplex data stream, each of which has several pixel block components or pixel (data).

Regarding claim 5, decoder (i.e. fig. 3b, unit 62a-n), decompressing (i.e. col. 1, lines 25+), interleaving network responds to output signals (i.e. 3b, device 63).

Regarding claim 6, memory for storing image (i.e. fig. 4, memory 85 and 86), motion compensation (i.e. col. 3, lines 15+).

Regarding claim 7, limitations claimed are substantially similar to claims 1 and 5, therefore the grounds for rejecting claims 1 and 5 also apply here.

Regarding claim 10, as for processing step includes DPCM processing of pixel data.

Note; MPEG is a specific kind of DPCM processing.

Regarding claim 11, limitations claimed are substantially similar to claims 5 and 6, therefore the grounds for rejecting claims 5 and 6 also apply here.

Regarding claim 12, processing step comprises the steps of predicting pixel values and compressing pixel values, are inherent in an MPEG data processing.

Regarding claim 13, limitations claimed are substantially similar to claims 1 and 7, therefore the grounds for rejecting claims 1 and 7, also apply here.

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Claim Rejections - 35 USC § 112

3. Claims 1, 3, 5, 6, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Please remove all decimal Numbers, dot's and characters like (12, 14....)(P1, P2, A, C, B, D) from the claims. They present ambiguity to claim language.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Behrooz Senfi** whose telephone number is **(703)305-0132**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chris Kelley** can be reached on **(703)305-4856**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relative to the status of the application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

B. S. B.S.

06/28/2002


CHRIS KELLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600